Notebook Series -- Pocket Notebooks
Notebook, PN-13-09-24

The dated entries in this pocket notebook are from July-October 1913. The book was used by Edison to record ideas about business matters, experiments to be tried, and other tasks to be performed. Many of the items have been crossed out. The entries at the beginning of the book pertain to the finances of Thomas A. Edison, Inc., and other Edison companies, as well as to Edison's personal finances. Similar information can be found in PN-13-07-12, and some of the entries in that earlier book appear to have been copied into this one. The remaining entries relate primarily to the development and production of disc records. Included is data on production costs, daily production numbers, and salaries. Also included are notes and instructions about automobile starters, chemicals, batteries, cell regeneration, miner's safety lamps, and kinetophones.

Among the numerous Edison employees mentioned in the book are experimenters Charles T. Dally, William W. Dinwiddie, Archiebald D. Hoffman, and Sherwood T. (Sam) Moore, principal assistants in the development of disc records; Charles W. Luhr, superintendent of the West Orange laboratory; and Carl H. Wilson, vice president and general manager of Thomas A. Edison, Inc. The pages are unnumbered. Approximately 150 pages have been used.

E Incorp	July 15	August	Sept	Oct	Nov	Total		
Co's notes		45000	50000	40000	58000	203000		
Customers		38127	26552	33389	1650	127767		
Merchdz		15000	50000	65774	20000	91574	422342	
E Pha Wks			15000					
ES Battery								
Co's notes		36000	107000	34000	21000	216000		
Customers		61144				29954		
Mchdz		56227	36279	39394	22619	838000	401564	

July 23 - Balance in
Germania $ 11562
Merchants Ex 23048
Both have 55000 Current notes

Storage Battery

April 30 1913
Customers accts 366861 all ok except Camden
30 000. possibly get 40% of this
Edison S Bat Supply Co California (cash or ford) ok
J A E blg acct New Ford addition, wages machinery
etc, bot by E S B Co before check from E recd
part of this cr against other accts payable
J A E foreign depot for bats ok
E Chem Wks 61726, stands on books at
this figure but cost plant as shown on
Chem Wks book 44458,000 but being
reduced by profits —
Patents 1 000 000 issued to E, 250 000 of this
given by E on bonus on bonds
Patents blg of 1/17th each year
Plant + Equip Glen Ridge worth 20 000
Darby mine Centennial Idaho
N J Exploration Co good —

Liabilities —

Royalty received foreign sales money
advanced by E subsidiary Ford west
269 703 acc open accounts Apl 30
Notes 195632 issued to E & Co
for work done
July 21 B Bal 19296
Edison Ford balance ?

E Lucop Feby 28 1913
accounts Receivable

100 was slow – 15751 due from Mins
Halogen Co pay in material, All is good
Except 22556, doubtful, probably some
Collectable –

Notes we have are 112195 11320 is very
slow. Mc Grad 12028 pbly good Except
4000 disputed, he originally owed 38000
Deducting everything leaves 88848 good

Mortgage of Goods owned by us, to our
factory in Newark, sold 3 or 4 years
ago

Cie Francaise only real Value is 32195
being goods on hand + good accounts.

Foreign Dept 386164 all good, actual
stock Machines,
German Edison Co 44133 OK stock
films + phonos
Our inventory, finished product
Materials + supplies all good

Machinery + Tools OK
Musical separand plant OK
values depon substantiated

E Lucop

Furniture + fixtures written off
Sales wagons written off
Film plant Orange, Bronx
120133 OK

Investments French Co NG
T A E Limited London 95801 good
accts receivable films Co is
107826 + are good. Co owes 64132
Leaves 203460 deduct 64132
gives 139328 Value of Co

Motion Pic P 50000 OK if we gain
suit, if lose the NG –

Motion Pic P Co 8500 OK Australia 24330
OK – Gen'l Producing Co NG
phono Co Chicago / Chicago OK

Bonds + Cash receivers 31541
6000 NYC 3½ – 5000 WS 5000 UP 4
9000 phono cos bonds 6088 Cash.

Sales 1912-13 4,851 646.
Actual Value E Lucop 4,512,116. owe

C151

Bus 662 305 Net Value 3,849 811
July 30 1913 Bank B 209 000

E Phono Wks –

Accts Rearble 45138 all good
Inventories 1 116 414 – OK
Cash Reserve had it, borrowed it
Double entry –
Accts payable 197 858, 83340 of this
is due E Incorp balance 115 517 due
outside for material
Actual good 1947 451
owes 377 858
Value net 1 533 666

E Incorp – Average B Bal several year

1906	179 000
1907	199 000
1908	219 000
1909	241 000
1910	182 000
1911	442 000
1912	428 000
1913	

Aug 7 1913 Cement Notes –

Notes to pay acts	34 707
Discounted Union Natl	88 250
" North Ward	39 500
" Merchts Exch	50 000
Easton Trust	24 500
Germania Hon TAE Inc	54 500
Union " "	5 000
2nd National "	27 440
Warehouse Notes – Miller Steinmetz & Co	40 000
	363 897

July 24

Bank Bal		16 278
Accounts Rearble		318 666
Bills "		25 662
Clinker	33000 bbls	18 191
Cement	165000 "	107 269
Bags & Cooperage		60 207
Store room stock		60 000
		606 293

Notes	34 707	144 339
accts payble	95 231	
Deved & Rent	14 400	

461 955

[21]

Cement

2nd National Orange

Aug	9	6670
	16	5160
Sept	20	5100
"	26	6870
Nov	5	4600
	17	4200

Alfred F Dennis of Post & Flag
Kinny Bldg Newark

Unfilled orders July 12

Cylinder Mac	24170
" Records	219198
Attachment	202
Discs #60	1837
80	1316
150	383
200	297
250	343
higher	37

Dictating	42
Kinetoscopes	2
Lelande	8589
Renewals	4938

Orders for Blue A records past
11 weeks ending July 25
100 000, week shipments 96454.

See how long Victor Motor runs
& weight on point,

Simpkins Why not use girls
roughing diamonds

Why not let Traphagen go –

We have 16821 German S plates
14 500 up stairs –

Get Catalogues Mfrs small ice machines

Connection Kinetophone to all
Projecting Machines –

Governor (Electric) for
Dictating Machine.
Disc !
New Kinetoscope
Electric motor for disco

Design new lay out film plant

See about cleaner for films
get blue prints from other Mfrs.

New model motor for #60 + 80.

Arrange get Wm B Parkhurst
for private Inspector 42 yrs old
once chief Inspector till 2 yrs ago

Rase Kehr

Castings for top of Posts
only No dail Stewart Lake

Estimated Sales this winter

	Week
$ 30	500
45	275
60	150
80	100
125	10
200	5
	1040

5 weeks supply costs 100 000.
or 20 000 weekly

Cylinder Records 30 000 daily
780 000 monthly $95 000.
6 weeks ahead 118 000 requires
19666 per week.

Disc

$ 60	500
80	1000
150	250
200	250
250	250
Higher	25

4 | 2275 — 1/4 is 569 week

6 weeks supply requires investment
$642 600

Discs 1000 dealers each to have 2 tunes in stock — Sell 15 records per machine, requires on above sales 5687 records daily for sales or 1600 for stock, total 7200 daily.

If 1/4 of above is sold requires daily 1800 records,
with 7000 out Each buy 8 tunes month, we have in 2nd month with 15 new tunes 2 each for stock
120 000 — 4610 daily

(12)

3rd month. 138322
or 5320 daily –
4th month 6000 daily –
5 6680
6 7,360.

Daily JWA. Rosin etc/substitute for Cresol resin in disc blank. also Paralite, + other resins,

Pick out disc records for Argentina + Australia.

Pick out discs for Siam + Korea

"Any Rags for disc."

Modifier on Disc

Vic records on our Disc

Daily about using acetic acid as solvent acetyl substitutes it dissolves, casein + muscle with most organic solvents

For Talent on Disc

1000 records daily cost talent	24.3 cents each
1500	16.10 "
2000	12.15
3000	8.10
4000	6.00
5000	4.86
6000	4.00
7000	3.47
8000	3.00
9000	2.70
10000	2.40

£158. June for Records

July 24 1913 Cement work

Bank Bal		16278
Accts Recvble		318686
Bills Recvble		25662
Cement 165000 bbls	650	107269
Clinker 33000 "	55	18191
Barge & Cooperage stock		60207
Storeroom stock		60206
		606295

Notes	34707
Accts Payable	95281
Accrued payroll	14400

Aug 1 1913 March only no Regular or Carbon

	on hand 100%	75%	50%	25%
Yorkonda	500			
Standard	500			
Home	250	500	1500	2500
Triumph	100	250	500	850
Amb B	200	100	100	150
Concert	200	100	100	200
Disc 250	250	500	250	300
150-200	500	500	500	1000
Amb 8[45]		5000		
Amb 10[30]		4000		
Yorkonda wts to be used in Amb & Ellis 25000 gone				
Amb V	1800	200	500	800
" VI	2000	500	700	3000

600000 gone
75000 bad Home etc

Cabinets in stk	Stock	on order outside	Making here
450	25		24
425	22		32
400	2		37
375	3		50
300	11		
290	0		77
275	4		52
250 M	1265	2000	
250 O	601	500	46
200 M	400	1192	
200 O	225		389
150 M	953	535	
150 O	374		171
80 M	505	2200	
80 O	186		1300
60	149		
Amb 1 M	51		
" O	174		53
III M	35		
III O	58		80
V M	402	1623	
V O	267		736
VI M	1929	now 1000	
VI O	121		

Resin softens at 158 Fahr
Melts 275 Fahr
Try Fahr. Chrysol Resin
softens above 200 Resin +
find cheap substitute that
will lower M.P. of Resin —
Try wood Tar pitch —

Don't forget print Copper marking
on graphited Mould, want stop
marking —

See why wax can drop
4 mm + 2 mm wax !
make them Celluloid.

Ask YUM why iron pipe
won't do for Condensing
water from steam boiler
pressure.

Get total Costs Selects
wax Dept —

Dolbeare

		Month
Amb 1	200	50
3	125	50
4	$100	100
5	80	200
6	60	750
8	45	2000
10	30	4000
		7150

1787

1787 Doc

A 60 wood		2500
80		2000
150		400
200		600
250		1000
Hyler		250
		6750

1687

Dolbeare calculated records one year

Sept 8423 day
Oct 10461 "
Nov 12000 "
Dec 13115 "

Schedule for Machines only
Aug 1st through

Amberola 3		Mahogany	9	per week
900				
300 "	3	Oak	3	"
"	4	"	25	"
"	5	Mah	35	"
	5	Oak	15	"
1340 week	6	Mah	150	"
	6	Oak	50	"
2000 wet	8	(1150 week) Oak	75	day 1000 week
1650				
2260	10	Oak	150	day 900
5910				

Disc Machines

		Week	Day	
250	Mah	180	30 day	5000
250	Oak	30	5	625
200	Mah	120	20	2000
200	Oak	60	5	500
150	Mo	72	12	900
150	Oak	24	4	300
80	Mo	300	50	2000
80	Oak	60	10	400
60	Oak	(450 week)	75	2250
				12,675

Daily

$483,000 month

1157 week

C41

Am 8-

450
12
700
950
90 52
1 50
45 00
90 00
13 00

Ambrose $ 141 20
77 35 50
16 55
26 50
15 500
7200
14400
14500
773 50

85
42
540 00

35
6
10
125
25
20
40 00
2 25 00
12 00

360
1440 00

15000

96
75
40
472 00
6 72

450 305
17 50

Looking Realtor amount see what costs what we have need

Legal Expt Didn't you make some arrangement with Coleman for Brigham machine

See Ted Washington + our Realty - 4 years

Kennedy - per on need
Rudolph Dairy painter
Electric rental alum -
Governor

Prof Rudolph on demolishing
Village 10% to chgs
75 cents brown wrapper

Maors about using 4 to 1 as soon as possible

Keep track of printing machines on Collashow see how many times - tracked blank prints & numbers good, trial results -

Hayes get out foreign shower trials, will come in Evening & test -

Pierman, leave requests & Rephos so can get them when goes away -

Wilson & Thompson
The funny dark bits, 4 of them Cant work try the act say a series of 6
also Reg aerial & performance

Ask Smith to photography on with Iron plates -

Ask Hoffman how Rosen tray worked - got

Get answer from Fox about Rosin -

See Simpson about Rephos & grinder for points to with angles -

Look at New Model #60 80 see how many records it does & if OK so can turn it over, to use after our stock exhausted

Disc of Carb for 2" diameter thick for EMG Kinetophone make 2m to use it!

Try hardening & bending above by soaking in some water & exposing air -

See if any more Bronx cocoa trivalo —

Next time editor Comes test on Parlored room & music room —

Go over & see the wax museum, vaudeville room + find out all about stock etc,

Look up raised platforms + Tarpaulins for storage ment stuff —

How are they getting on in Conklin's film drying room —

Call — test flashes on sell Marks Kneelpanes

Go over Bat Co see how they are getting on cleaning machinery — tell Bachman should make showing values Good Comps — about 6 ox for the 4 Bz —

Get list from Kaufmanoff of things he ordered —

Speak Bachman about film mess — Tarpaulins —

Look up about slides on Buick — what is it being done for

See Chandler on big Realfiel —

Write Devine if he has thought any further on The Vision for Warnock on pleated Elec also dry films on Racks

Why not put a Edyphone
maker on trying
many plates now little
Vac Drier if they will
fit – see if it will fit.

Fred OCC Hoare about or
Spare Crock for Cue plating

Holdy Wilson sent
Monday on 12th or 13th
get fumed —

Get some Aluminium gr. anodes
Cant get made here
+ cost with Lamp Cracking
Carbonizing – use it fines
than Permanite —

Use disc phone in Padded
room – use Talking disc
Etc in all Experiments –
Try Bell Record and Emgraph.

Dolly – Try wet film
in Vacuum see how it made
dried normal Temp or by
100 also 120 Fahr —

Dolly see if 4/6 is
solution Acetone Tetrachloride
so can use normal [illegible]
have 4/6 in it —

Discuss this about
ordering of other Thermometer

Wilson do not have to
pay $5 Royalty to ACP Parks
on Kinetoscopes yet,

Wilson when do we get in
our new place in
London,

Like get Sales House V regulation
+ different receipts up to date
+ Bergren put them in weekly
report also want stock on
hand + shop orders —

Leeming - 100 ~~Cut~~ Cut Cabinets
on hand + ~~on order~~ all phones

Monday Aug 5
$32000, in Ford funds —

Kammhoff ~~Showing~~
cut, Iron pots by
acc Exhibition

Get Phenolates Sol in Alcohol
+ add 1/4 + heat see ~~first~~

Make M + 7/8 1/2 + 1/2 —

Electrolytic iron Langbein - Pfanhauser
Co Leipzig - in Vienna, It twice as
good as Chinese iron used now
to Vienna of Chinese iron sheets in
Germany giving 1/2 hp gives
with Electrolytic iron 1.3 hp
it free from hydrogen
Deposited at 100 to 120 C
in an Iron salt mixed with a
hygroscopic Sort Sulphate Calcium Chloride

Krupp makes iron alloys
used in ~~[illegible]~~ or dental
Nitric ~~[illegible]~~ Nickel & Cast
& forged pieces
Ni 7/2 with 10% or more
Chromium & 2 to 5% Molybdenum
or 60 Cr 35 Fe + 1/2 @ 3 Molybdenum
it rubbed under Aqua Regia
boiling

CSIJ

See where Bergren
Mudd & Hardy
make their molds
for gelatin ones &
Customers

See if Sweeten was made
the Auto grinder for
Dress dressing

Reverse 7½ in Can
in boiling 5% KOH
separate Can no matter
in let it go for several
hours, then drain
Continuously

Phenol is the best solvent of
acetylcellulose — Try it
in Vermont with 6/4 — Daddy

Dimethyl adipate & oxalate
for phenylacetamin for
Copper bottle same with
other bases

Moore 521 - See box in flow
room

If in hurry bring plates
in so hot can handle
with hand on —

Take up with Wilson
shutting off Bendix
Mehs Can take care with
his own shop —

See Bachman about
Kammerhoff & Boderhouse,

Take the man from Dechs
up to Nehr for explanation
on report of Blumbaum

What Salary Neuhai getting

See Hoff about changing
his new machine

Lunchen drop up Jerome
Benjamin Conference -

See Ford Car & Trailer

Inspection Check system
Top plate powder proof
density 10 days of speed
599 bad pull outs while
other side or bottom all
good - use graphite,

Use graphite on ~~prem~~ his
instruments before printing

~~Stop~~ Experiment step buffing
only use graphite

Want see proof Calendar

Pulsar press out, no
press afternoon

Schedule of Production

Amberola	III	12	week
	IV	25	"
	V	50	"
1500 week	VI	200	"
	VIII	75	Daily
	X	150	Daily

225

Disc A 250	17	~~25~~	Daily
200	12	~~25~~	
150	8	~~25~~	
80	60		76
1160 week 60 wood	75		
	135		

Best 213 000 month

Nehr Try do away with Benzole use Benzine

Worry about looking up that Western Assembling to Purchase Dept near now in Kimberly Room Weight do for General man

Agitate developer by pumping liquid better results 1/2 time.

Filter system for Developer & Depo-Nickel plating plant.

Wash tacks wound with wooden wedges is now filtered

Try Developer 13 at once

after washing dipped
1 mm in 1 gals, 20 lbs
180 gal water.

Fred OK fox air pipe
in lower plating
Repair -

Grime always scum
latest from baths
upstairs so was
can always know
that they are ok
& not pile up a lot of
bad ones.

See what is table of
Marburing bonds -

606 - Horribly weather -

Schedule on transfer
press of good work

7 Contact
2 on low
7 on high
12 Coal -

91%

Subsequent tests
show this is good
schedule

Regular schedule -

2 Contact
1 low
5 High -

Mean that
allowed then
get only
50%

* Hoffman says plates were hot

× dark good Pents from last

606 – 384 V. mmb. 1/4 more Pentra *
607 521 " 1/4 "
608 384 " 50% "
609 521 " 50% "

548 7.9% 6/4 3% Paraphenylodem
611 10% 6/4 4% "
612 7.9% 6/4 4% "
610 5.19 6/4 4% "

~~Above made 10~~

~~Try Expt of adding ¼ lb of Paraphenylodem to 4 oz H2O2 + dry – & use this instead of Reg Para – see if grain affected~~

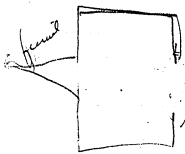
594 all Rosin

590 w 1/2 & 1/2 Rosin + Cand. & 2% 6/4

Try Expt of dusting sumpter powder 6C dark with mallard Rosin at 2 degs

~~to get blank so veneer wont Tacky it off.~~

Boston road R to New London then to Portsmouth Nh,



box –

Remember the Street at Montegan

~~Bee get food tated night along of Home PK folks~~

Dence wx can make
good transfers with 5-21
Make some Condensers
Outwashers with 521 &
Print + gold plate —

Each batch phenol Resin
Make test of 7.9 8.5
to determine best 6/4
ratio to take care of
free phenol.

See if where powder
blank squashes out on
transfer wont the place
where second runs
out

Fix more steam pipes in oven
oven temperature to reach
350 deg for reasoning in
furnace

See Moore-Shirley preparing up
4 presses 1 man work all
cheaper help to load — for
transfer etc —

Find way to matte transfer
plates Stop Sticking —

Test good transport sheet
Celluloid gives gave me ok
see if can get stopping —

If Dulley or Chrysler got
good stuff make sheets
12 X 12 to cut 10½ — + test
use Bils Camphor

About finishing moon
film Dryers —

Try 521 - screened for
dif length time in Tec
Chest + also at 72 Tabs

See if 6/4 decomposes
or absorbs moisture
+ Haffman gets wrong
weight —

Take up with Jwa test
method of determining
the 6/4 + free phenol of
each batch Phenol
Resin —

See Celluloid people
+ arrange for shades

Dolly 3 3/4 to 1 3 1/2 to 1
+ 3 to 1 dip on celluloid
to get smoother also

Same with Camphor - also
press Celluloid between
polished Ferrotype Sheets
plates hot then dip
4 to 1 + less -
also try acetocellulose
if it will stick -

Haffman JWA How about
making 500 lbs batch
phenol resin + mix
then make varnish &
test 6 rounds for
proper amount of 6/4 —

See result of the varying
proportions of 6/4 - Pentas
+ para, about 10000
before & after —

C65J

Find out from Bro. the total acts of Gulling that have gone over 4 years & those that remain & those which will reach 4 years month by month

Golf take up the Beaman Camera & see if we can help out Preparing & taking — also basis of new Combination for Gent & Lady —

Have Dilly or Lell get 1/2 doz 521 & Lake Mich reg & check but up to 325 deg

Sept 24 1913 —

Smith Reg up Bromfield A 4 = Circuit also Electrolyte so its requirement & [illegible] for Tube & charge — [illegible] Tube
ask Smith of Bragg for Bi Tube — also about principle regarding [illegible]

Flat inside of valve Top stamps gone flat reducing [illegible] stamps so Quadruple Stepping Cam take place

See if Arsenal Gratham procurable within Country & amount

YWA Heat Crude penta up to stamps & distills & then use it

Regenerate Pressure to Electro Held in Hypochlorite Na and K

Mr. Mason & they have a good something wonder & he could do some nice work for me

Walter Miller
Metal engraver
[illegible]
Wax & Chemicals

Kommerzrat Max
[illegible] Esbach
made by Bethlehem
Foundry & Machine Co

Patent - Paraphenylendiamin
for sizes -

Oxydes Para Commercial
Sulfate O of air or
Commercial Hydrochlorate -

See you find out how
we can get that nice
Cellulose sample, which
he gave me -

Walter's soap wonderfully
delay in new revenue
is due to delay in
printed Walter
See McCleary &
Know this Duff
been 20 2 years

Hamp Sale / 2 Hamps

Chance hyd —

find out what is done with old white Marlow. Can we use for Experiment —

Have the Disappearing Rigging put in order by Lukas & look up —

for the Vivian Quadruple Sliping

Put Drawbolts on

see 6" drawg

for Fwd Elev — take out old motor from old centre & look at it, —

& design it in the fwd —

Try see if Exhaust will work a fan or a simple Eng or sub for alcohol for 'cold' dynamo

Bring clay Pipe to Walter Miller - 3 ridges, calls to test those the same year

Sweep around 100 521 plates to take edge off Vernon - & test ⅛

[71]

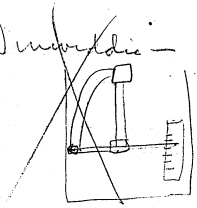
Make surface Couple plates by making treads in 21% HCl & test —

Hoffman Make ~~[illegible]~~ Gil Varnish with 15% mastic 6/4 but with wood any Para or Perchloro & keep in contact with & call for I —

See how transfer plates fit backing or halves — perhaps something wrong here

Better remark (work) if ~~[illegible]~~ holding plates in 1 press & see if there isn't 1 or more always made bad transfer —

Dimroth —



Benzoate
Salycilate
Phenolate
Phthalate
} of Paraphenylendiamin

Pass Ammonia dry into Varnish after 6/4 Para + Perch is in (10) Reg Varnish + see how I Confirm on glass

See if phenol ~~colubrin~~ Dout
with Para or Parachlorphenol
also the other things
I used —

Hoffman ~~Roche~~ How
about diaphanin
Phenol digestion
Prem about ctenl
good Coffeland —

Prem, make a
disc replica for white
Master to reproduce
using telephone
to get blood —

Make allowance to go on
our medium to which any
Vic Specimen can be showed
on —

Moore Edge 48 6 Counter
6 ⅛ + 48 $\frac{1}{16}$ circle
+ transfer or penny mould +
~~[illegible]~~

also 48 $\frac{1}{32}$ Hole dia 48 $\frac{1}{16}$ hole

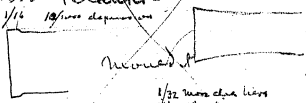
also 15/1000 deep + wide
[illegible]
change a mould to do it —

Select 100 most Mallo
plates & 100 most polished
flow among Vic make some over
wipe some blunder —

[15]

flow 25 ~~deg~~ plates Heated
Pipe with old rag which has
been wet with Cutter oil —
25 ditto Grease in oil — turkey Red oil
Lanolin - Paraffin wax Beeswax etc
also only around edges wipe

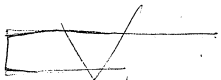
Moore Blanks -
1/16 18/1000 depression



1/32 more due heavy
Mean Center
gradually taper

Make some Special Condensate
little hanger dip 4 to 1
Celluloid screen on print
from Heasley,

Moore

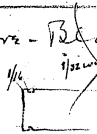


Blanks Moulded
30/1000 thinner at edge + 1/8 back
for 3/16 -

Moore - new schedule -
but before cooling reduce
pressure to 300 lbs + cool
ditto 200 lbs

after plates are removed
from press put them in
Chamber + pump air in
till 100 lbs pressure to
destroy Voids — use
Compressed air —

Moore - Blanks
1/32 wide 15/1000 dip —



Make tomorrow small batch
2% Para + 8 12 15 + 25 %
Hexachlorethane - ditto the alloy
Cheap ones that etched opaque
also 15 + 25 Para only

Moore = I remember that there is scarcely any instance where if a plate sticks & must be always off that it has Cracks
Looks as if tension pressure on platform was bad

Moore – do the plates fit the holder in transfer
Also out of 100 cracked transfers or prints –
How many are on both sides & how many on 1 side having the kind of Cracks –

also in 2 degree transfer sent there very small Cracks at all the edges which might increase in scratching –

Repay mail in Disc Dept –

Cut out discs of Mosquito netting or Coarse chiffon Cloth & lay on blanket transfer –

Thomas, slipping in Chinese Lineoleum –

Bergerin – Repay the 75 000 borrowed of Ford Money & 50 000 from Hitchcock –
from grad payments

Disc Pennyroll - 4046 Moore & Baffin
475 Grumes -
4521

1500 daily	30 cents
2000	22.6
2500	18.
3000	15
3500	12.9
4000	11.3

Talent	1500	16.1
	2000	12.15
	3000	8.10
	4000	6.00.

Phenol heated with ~~Oxalic acid~~ changes to a dye stuff ~~also by~~ by oxidation - Aurin - is Rosolic acid

Try permanganate K - chromic acid in Vacuum

Try Chlorine from a Dyer

Try ~~Chlorine~~ -

See if details HNO_3 Dout and ~~on~~ H_2O without giving from NO_2 because Hg or Lamp free Urea - only

Arbeiter Rubesser Music

Try Cupric chloride as Oxdyer in Vacuum for fuma -

[83]

Oil, ~~[illegible]~~ all the
Aniline Colors with
Ammonia to get
basic — A test,

Try 6/4 on aniline —)
Alcohol and [illegible]
Try [illegible] PbO_2 on [illegible] to
repelle paper, Bright Cylinder oil —
keep Corallina Yellow
with an acid get
Auxine — which is an
acid

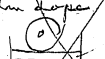
Has Tori a dise machine

For wiping plates to leave a
film — Castor Oil
Lanolin
Cylinder oil
Oil Cade
Cod Liver oil
Sesame oil
Benzine oil
Gurjun balsam Used on Celluloid
Caramel
Copal

also Dyes sol water not Alcohol
Blue (Ethyline)
Methyl green
Dephenylamine Orange
Methyl orange
Red Chrysoidine

The plates could be dipped
using a little in a volatile
solvent,

Dip water dye record
in thin film dope + least
wear -



this way

also, Absolute Al. but 8 to 1

also acetylcellulose

Warm a record & play
while warm -

Brush over with Bakelite
in Alcohol, ditto Benzol
also Benzol ~~as with~~
Acetone,

Take up with Dope
Denatured absolute
Alcohol -
get price down

find something warm solvent
absolute alcohol to
put in dope dip to harden
Graphite on Rosin

Cool Vac apparatus for wheel
Washers, a room, a trap for
Ether or water, make the a
Dry the air $CaCl_2$ -

Look in Micro flotation &
heavy graphite — also
try a little + flow out bottom
outlet test also note
of Crude flake finer or
Coarser than pure -

Wear test on water Dye
Cylinders — play once
a day see if rest between
helps -

CHS

Lacenny are bolts on 80
thread cut by machine

Hodgson - got 2 doz bolts
they use on 1080 &
rig up for threaded tool.

Take hand surface
work marked, Grinder polish
out some with blade
want 4 men again polish
to grind 4 men & keep
on

Grinney make a locking
nut lightly that was bad
Ground surface
& polish - Got old
Reamer to grind on
Hg rang

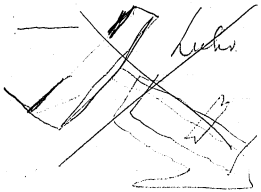
Hoffman Drop 678 with
15% Penta & 2 para

Grinny always
shood labels
Mr. Hoffman can finish
all his drums

Nelson let me see
letter to Jones about
Cylinder End mark
bad sending out

Nelson send a car

3 Each of dif shade
of blue on the bad
but friends.



Moore: use glycerine
Rag of Celluloid —
to prevent from Weather

Use glycerin & Vaseline
Rings to ground second
Try inner hair
brush —

Hoffman Watch powder
1/3 Chalk.
Also Talc — also — Pumpkin seed — 1/3 separate

Hoffman Chalk only 3 to 1 Cresol.

Moore: Graphite a condenser
see how of glass —

Dunwoodie — Make a
friction light scale
to test friction of
truck from —

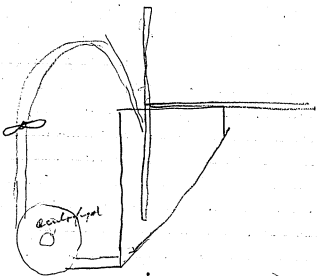
Send to Ford the
Tech book on
Coat Truck

Lining

~~If you give me 1/2 doz transfers buffs & edges coat with Zn/o Sol. KOH, then wash/ see if now homogenous also try other water & Repeat to bring out defects —~~

If polishing Rect master which turns out OK Polish & Repeat Wax & make 3 solid Wax polishes from Celluloid prints to see improvement in surfaces —

Get some Electrosection to polish disc master



water or Kerosene (or oil) with powder for polishing disc master

Wet top of Varnish with 2½% KOH & dry — then transfer — if OK — make a chalk crystal blank & transfer this KOH Varnish or chalk Varnish on powder blank —

Raise the frame [illegible]

polishing brush should go at slight angle to mould & be reciprocated

Use powdered W Va lime for polishing —

f blades rotating $\frac{1}{64}$" from round needles & light wearing parts, in heavy kerosene bearing

Jones look up Hyatt Bearings see if can use them on cross wagon — Dodge Ford use small in rear

Patch about Auto stop — want [illegible]

Powder for polishing
Kieselguhr — Tripoli
Precip chalk — levigated chalk
~~[illegible]~~
Oxide tin — Rotten
Stone — Carb Magnesia
Whiting — Jelly powder
Crocus — Spanish whites

Moses Tell Leal
girls 7s sons 2
big Rem and records
Fresh —

The Rough Negative of
Cellulose & heated to
Ground at 12 times —
& heat some more
with Acetic or above
Glycerine —

Move. Wife Run only
in Cellulose — think it
sticks when pulled
off Cellulose —

Coating Sent Hooper
Wrote about Hooker
Same date about getting
Tri-Lyrate, they got footballs
Medicon, together

See if Para will
Combine with Formaldehyde
in cooler stuff.
Evap at Tank

Hooker. Why not you
get Compressed Wrigwell
foundation of ours

See Terry [illegible] mixing
my book [illegible] signs of
quitting [illegible] of [illegible]
[illegible] for sale

Moore — Let me hear surfaces on
1/2 doz 1510 bad Vernier
also print from No 5
on transfer made with only
top plates in rack in order
& since from middle plates
Want test for RO — if works
good try 1 2 3 & 4
of the 12 series —

2 = Run through doz rack
twice & doz 3 times —
shifting plates each time
in rack — print &
let me test for RO
plse No 5 or any of
the 12 specials

3 Listen to that tune & hear
be of rough after grinding
Wiper with a [illegible]
Glycerine —

4 — Rollset 6 with no RO & 6
with note if more scale movement
on RO discs, they may shrink
dif when pressure taken off

5 Look at Tracked surface
from the second 12 that
has the worst RO & see if
Can see it —

6 get doz 1 3/8 ins or other
wood discs made —
transfer on them & print
see surface & RO

Soak a Record in hot
alcohol till Veneers
can be seperated from
blank

Moore what was "a good transfer from longer copy + also dubious 9 "?
good points – also
would like hear
surface from a dog
Mr pl present No 5 or
one of the speak 12
treated to Counter of
them

When you get supply
Paula and – use 3% &
2 para & quad alcohol
acc of RO don't demark

Polish a Run coil
~~blank~~ Record + see
of RO disappear
May be lef in
friction –

Try the Expt with Mush
Chalk & Cresol rosin in
Alcohol on face blank
+ bake – Mrs Ch –
Try Lamp & Crack also

Moore
Dog prints, the transfers
which have been rubbed
with glycerin mag
test for surfaces from
ones – 1/2 wiped dry
1/2 not.

After Candy machine has
Run all day – look at
Wkg m + then have
it mounted + prints
Taken acc hours of
sounds – Rule of Cycle
another one machine

Moore what about the 35 & 30 ~~[illegible]~~ OC ~~[illegible]~~ transfer plates & transfer & bankers —

How about points from the baked transfers — want near them

Put right amount of Para in the Cresoxymethylene Vermal Hoffman made & have Dally flow if run through covers —

Moore to have girls pick out some good RO & note them Reprint & see if they are there just the same

Anneal some bad run out records at 175 deg & then see if still there.

Moore - How about the Expt of Coil of 15 mm instead of 7 & points of [illegible] surface & thin side — if shows anything try 30 minutes.

Moore theory chilled [illegible] shrew when released springs out of round & ball runs to one side & up the side —

test on the 17 Tracked ones —

for coating collulose
prevent stopping Citric acid
in Water —
Aniline acetate thick ad
Sal water.
Dichlorohydrin Sal water ad
Ethyl Citrate — "
Ethylene Chlorohydrin " thick ad
Glycol Sal water
Ethylchlorohydrin "

Lancaster Field of
[illegible] the Lancaster
Refining Company.

Oil - cut out blank powder
to make 2 brands each
150 100 & 50 each
Hoffman market to take
9 Moore transfer a
point to make 2 each
veneer & by piping in mouth

See what we could
screened wood pulp thru
race of it cut out coarser

See Jones about cutting
in new pension cutting
Motor in Ford Car and
flex drive between Wm & Corp
pension

Helping where are the
Record tools —

Nelson & Halpin Tropicha
peak out red, lead
scarlet & lead brine Record
for general tool all of
Hudson —

Ave Wm & the Gauge
for tool

Mudd - Make 3 wood discs, see pressure would be all pressures considerable - break one in Crystal Resin - Immerse with alcohol - Coat it - Transfer

See Hoffman - Let him make some Chalk with Crystal Resin + Dry like wood pulp - grind - make 2 or 3 discs all of Chalk 2 or 3 Veneered Chalk discs, then some mixed 25% 50% 75% Chalk with Reg powder - Make blanks & transfer

Make 3 blanks plain & 3 Pressure Back Chalk in -

Wilson - I am not kept posted on Resin shaw recipts - should get it every week.

Moore Let me hear the double Coumarate - transfer with alcohol Octiman -

Flow 50 55 + 60 cc transfer - permit want hear surface - tracked blank models -

Power Chalk Rub chalk in + then very thick Veneer, Bake -

Try putting fill up voids in surface of blanks - Try wood flour, Dorris Cement,

Hoffman makes few blanks
+ never with highly Calendered
fine grain powder.

Give advt to Maxwell

Moore Takes out
12 transfers loading
only when pressure is
off —

Moore & Dallas need
for a bigger supply
new numbers do they
not make more Dup
moulds —

Moore. Repress in transfer
press Reg schedule, Blanks
with T and paper Each
side, to prevent sticking —
+ then transfer on —
There will be no further
distortion of varnish &
the surface will be
smoother —

Get some dry Cylinders
with varying some
rings — to Disc

Hoffman press powder
blank Cold all pressures
will stand but was with
powder 50% Dry clay
bake if it won't Cold
transfer without baking

See if a record tested above 200 will gradually obliterate

Moore use paper and repeat blanks at highest pressures possible then transfer a print Pag 99 of O.R. —

Find out Mfr of Casein & get supply

Wilson, please keep account of value of daily shipments of all kinds to Edmunds on our applications —

Hayes get Aid Robin Gray

Kammerdiener — Turner Reduction Check them up only 1 separator note Hardening papers 910

Ask Howell if Chem Corp needs a Wagon Lamp with Carbon fuel —

9 W a Refractometer reading strength all liquids

Note
Some of your records are not filled & weak

Put fine surface thin paper between 1st & second Transfers — dittos Get

Blank & board transfer & then balance 1st & 2 transfer also only get blank & 1st but though

Dec how dry long proper
Mix to glad[illegible]
6 [illegible]

Reg up to precip + dry
40 lbs 20% Branch
$Mn(OH)_2$ — 20
[illegible] Mn [illegible] BOH
Cells —
1st 2 put in. One & 1/2 gram Each
of following — Reg LiOH + KOH.
1/2 gram NaOH. 1/2 gram Cesium
+ Rubidium — 1/2 gram
Magnesium OH, 1/2 gram Thorium OH.
1/2 gram PbOH, 1/2 Ca Ba Sr.

Next 2 cells —
1 1/2 grams Each — Mn OH. CeOH. io
Cr OH. Co, Cu Ba Mo
Mg Sn. Zn

Note perhaps dry MnOH, try 100 grams
in Bag if can get it in — or as much
possible + make up strong NaOH
[illegible]

Note Key — Rings or cast, Tantalum Clips
Lead — platinum — gold. Si,

another 2
Ti Wo Nb Sb Ar

Another 2 S Te Se B + K
Kcl Fl. Phos Na Zr Boron.

possibly may increase the
quantity of each + have less in
Each cell + — Idea is to
get catalyst —
Neodymium Praseodymium
Thorium Erbium + other rares
in another 2 cells

Try the Each Mn OH gel
from Aerosol Corp. in 2 to 6
grams Reg Strength,

Look up Calalaque
Send Rayonny Mechanic
for also ad —

When apt from Root
Annual Crop report or
last one by plates
or lesser divisions &
we will divide map
of US & find out where
to go for business

Put a Wrinkle on
making Paper pulp
flared horn cheaper

Atomizer, Resin &
dry paper pulp
& Rattle mould -
greased or albumen -
Wanted proper check
then press for a funnel
for plumb

Can double the angle
of 6" pinion by splitting
& filling right & left -
more grist -

Wet fibre Resinate soda
damp - then wet
with Chloride Calcium
which squeezes & dry
makes Resinate Calcium
not meltable but
softens -

Smith - Requesting Good
dry plate & dip in
Cu Cl in HCl, little Tartaric
for hours then put no
Cell or add little
HCl & Cu Tartaric Sol to
Cell - also by same
Thomas Bramwell Sol.

Did Leo Mueller ever pay for his phenol

Brassica Cell - perhaps B1 causes more absorption L.O.H., showed by 240 grms L.O.H. to equal Leaf Cell Tissue 120 on B4 or on mucilaginous in, change + add more 120 on Leaf potato cell Can in — + if cant get good results with the absorption KOH B1 gives so much output may be why of alkali Enough for this but not enough for B1 —

Can add a pieces of Cryptogams L.O.H. up to 300 grms for 48 of its absorb by B1 — Must be B1 OH absorb alkali given it out on change or the reverse —

~~Rec of Mitchell B1 + Sulphate Mn well go Logilleroo~~

Cost of Ram of Phenol Resin 875 lbs

1000 lbs phenol	7 1/4 c	72,50
600 " formaldehyde	8 1/2 c	51 00
12 hours labor	20c	240
		125,90

144 Cents lb. — of resin 5/64 Cost is 17 cents

26/6 Reg 6/4

10% Hatchell		4 to 1 - 34.8c
15		3 1/2 to 1 3.68
25		3 to 1 4.10
50		

26/6 - Reg 6/4

10% Rosin	
15	"
25	"
50	"

Transfer on a Ring tumbling pressure bed print without ring -

Charcoal + Raw fibre 75% Charcoal 25 Raw fibre -

Ditto 75 Charcoal + 25% Reg fibre without 6/4 -

Fred Otto re run 275 No 3 Fred Otto - The 7.4 + 7 6/4 when they Come' there -

Dehydrated Resin No Penta No Para 3% 6/4 5% 6/4

Ditto with 4% Penta 2 para -

Run Oakey 6 hours with Dehydrated Reg Va 180.

Christmas keep on Charcoal dryer to get good Edge

Fred Otto start Chillers Mill on charcoal

Plaster Paris, Resin Cement, dry out + press,

Charcoal Crowbar flyer -

Moore – Flat Charcoal
lighter pressure

2 mm No Contact
then Reg schedule

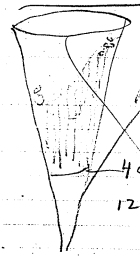
Ask Wolfson for
balsam letter
cor sent from Los Post
Advt + Cost Exch

Luhr Expansion
bremaldon
ambassador 8 + 10

See if Hulk Chas
written to Pillsbury
re Rm Amp
Carbon Lehrer Wunde

Drummond Sunland
drawing funnel lay it
on paper that glass
+ heat glass by Elec
to melt surface only +
chill –

Frank Buchman
hurry 3/16 filling
needles Elie Ford



Luhr funnel
3" to 24" inch
4 dia – 1/2 dia
12 tube

Show Dinwiddie, Bureau
Standards for 5 days plating
Patinnaka on Sound
absorption Oct make
the measuring instrument.

Lous Ott try hour heat
350 Horsepower
a lot of the organs
=

Dr. Coughlin necessary
procedure in muffler
while running
with Dr. Coughlin
for digestion of sound
also

Lehr Cant we put worm
drum gear on automobile
get up new worm drum
motor like 1930 model

Bert to tell Esther Ford
or Billy Graham
Couple motors might do
by Ex.

Dinwiddie - free of Dye
Dope dust reduced the
Cop voltage
rendering profile
try hydrosulphate.

Grames Grand one of
our trucked jobs
Moulds - Wooden
part of Moulds broken
Bort & Chemise'd
on Bort - 5% blanks
fine ground single press

Yes

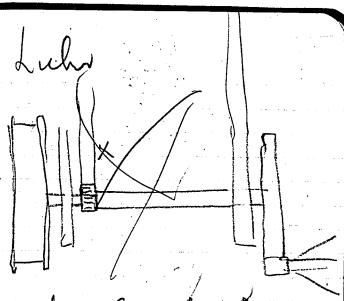
Fred otherwise a Celluloid on a fine ground 5/, [illegible] — see of strip —

Grinding from mix Latch fine grounds in Chilliam mill —

Hoffman makes 100 plates
4 % Tetrachloroanthraquinone
2 % Paraphenylenediamine

Also 4 % Tetra Map only
steel on fine ground 6/4 5/3
Blanks

Lucas



also why not cut x gear smaller to allow of 1/4 shaft as above lowering down efficiency to 3/16 for [illegible]

Fred Ott put 3 or 4 lbs of 7/9 powder Chilliam Mill on a [illegible] as [illegible] grind till good as 24 hour samples

Billy Gray Telegram

Generator is 3 amp 1000 Rev
Corresponds to 10 incandescent
5 amp on full load 1275 —
8 amps at 1800 meaning
general of Curves (a dec)

Apples telegram

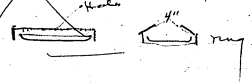
Dynamo 5 amp 1000 Rev
self Regulating type doesn't
Exceed 6 amp at
any speed —

Dolly

Have 2 doz Rings used
place around the
Veneer plate to keep
atmosphere of alcohol to
stop running and
1/2 doz Covers with

Dolly

Holes in top 1/2 Hole 1/2
Closed



Lime Oct for blackboard
~~plumbers~~ pick up per oxide
Manganese Magnesia
Oxide

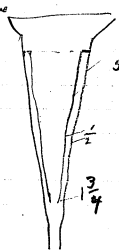
Belt 40 3/4" Wahlin belt
23.5" " belt

Read up ~~some~~ Sulphite
pulp paper.

~~Hatch~~ ~~Pulp~~ test trays
in Library RR Dead
~~backup~~

C125

Luke



Echo funnel.

Huffman Moore 7/19
3 1/2 to 1 also 3 to 1

Try Varnish with no
6/4 in Then 2/6:6
want 1% of Resin 2%
6/3% 4% in w/ Least
on small state use
No penta, or Pohra

Moore 4 Crampton 7/19
Reg dia. then edge 1/8
smaller -

Edge 1/16 small; putting
around a Crimped then
remove - not sure -
ditto

Moore when are the
60 & 90 / in wet varnish on
7/19 -

Moore & Crampton Measure
up some cole mould
for thickness & for
flatness - perhaps
these not best Combined
at Edge -

perhaps 14 from too much hardening of Plates so don't fear too present

Smith – take one of the new Pat. Cells and assemble with double the rooms

big pockets, thick –

Wally test your Collodion on plate if does what you have water in it – do process – Room should be cold & free motion

Have you patented new wrong governor –

Kammerhoff

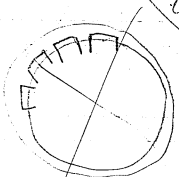
Water closets new plant

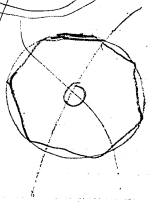
Tanks Na & Cole in H plant Mean Cole only hard to clean –

why put some tanks at Rubber & others at H. plant, B'd one down that way for want of room –

Pulleys Ford

Cork inserts





Moore for up stroke
Wench to get stroke
records off weighout
full outs Blanks
hard work to make
it powerful —

Moore Set ~~[illegible]~~
Double transform
for Chlorophyll &
Anguline —

Fred ~~Gill~~ tobyballin
for wear to Gordon Rea & Co
see if they can coat it
with 1/32 Hard Rubber
also the Rubber Cloth
near factory —

Dolbear

~~gives order put on~~
make 400 then suddenly
stops shop –
~~Gave order put on Mizzen~~
~~then found he had 100~~
in stock,

~~212 Wesler to transfer~~
~~1000 lbs – no good –~~

~~Moore blow 500 plates~~
~~rope edge to stop~~
~~Clutch & Van running~~
~~up hill –~~

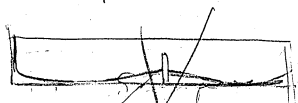
See if new blanks porous
paint slightly before
baking with high
Viscosity Reg Varnish –

Bake 50 blanks (new)
in oven with Reg plates
then transfer at 5 lbs
pressure 3 min Contact
7 min 800 lbs pressure
5 lbs steam in 225 Fahr
Everything would then nail
go above 225 – no gas
use reg new blank – 1 lb
Reg blanks – 225 Fahr 5 lbs
steam no contact but put at
800 then put steam on
– 2 hour cook
Note direction of shaft
End of bends –

ditto release
pressure –
cover

200 Reg plates with
6% Penta 3 Para
ditto 8% Penta 3 para
to stop bends lessen
synthanoin – stops
Edison –

Transfer new blank
12 flat veneer plates
dittos, 12 more veneers at Centers
leave at Edges —



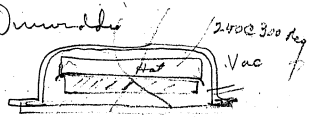
Moore

Allows more to shake
with Centers (12) to shake
Even

Rouhical 5 min - Conf,
then 1+2 at 3. conical
then 5 High at 800

1st Operation Cannon
Veneer to Leave plate
perhaps on 2nd schedule
it will not expand stick

Dimmitt

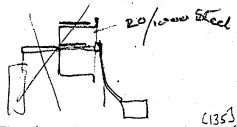


Vac strip veneer

Lay plate on steam plate let
over it Lay new blank +
put plate over + weights
180 lbs - 20 min by temp
Lay it - Fred ate or Daddy
do it —

Wilson - Welch orders
for Cambrigal Medium +
other schedule to suit
+ keep pay roll down

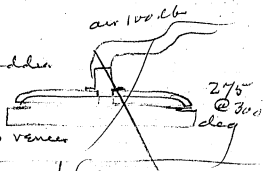
Luhr



(135)

air 100 lb

D mundlin



dtto up veneer

New idea – Schedule
7 min Contact
run up in 2 or 3 seconds
to 800, then run back
to Contact or Coal.

dtto 7 Contact run up to 800
& instantly Coal keeping
pressure on –

Schedule – Sand paper face
of veneer to take off hard
shell – then 3 Contact 7 at
800 – Coal 10

put 20/000 disc of metal
over ebon plate 5 1/8 x 2 9/16
Press to Contact 7 min
Coal 1 cent to pick up
Cent clap bag Contact
~~[illegible]~~ also use bake
Blanks baked in oven
of veneers

dtto. 3 min Contact. 800 heat
see of strong plates –
dtto with baked blanks
baked in veneer plate oven

Meadowcroft – get all
the formulas + information
together like G V Miller as
nothing – for Condensite
Resin Sup – varnish, &
whole process,
also write recording way
buy, ~~[illegible]~~ black + brown
fly + when troubles come

dtto Battery –
Blue cement –
floating Cylinder & Osc
mount &c – pressure
baking Elec Ac Hooks

Dally Experiment to get less Var
written print by cleaning Soft
Var from 2 oz to 1 oz meal 2 from Red

Moore - Why not have some
plates 100 - flattened, -
possibly Can annealed,

Wilson - How abt representatives
in Boston Phila. St Louis -
Norfolk Atlanta Pittsburgh
Detroit Cleveland Cin
& starting Ulem works
big - Ed & fall in with
Quincy and yours Dally
like Chicago -

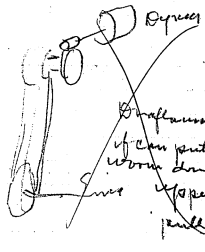
Moore, What special plates
have you on hand, I had a
lot made specially to be saved
out Numbers from Buffalo
& test on new stock
Especially Negs Paula & Bess
Phonol Rec up 24 x 3 phone

Dally
see my book where Sesame &
other things not agt alcohol
used wipe plate with clap
adhesive - make lot of
plates then treated
Think Sesame & Benne oil
best - Dally make

Dally make
Analgumate 2 plates flow
& test.

Walter Miller - who were
Chorus in "Call me your
Darling again" qua

Dunwoldie - Why would
full Chaps holes - pour plates
P! harden bake & then turn
upside - leave PP in chap holes



See Wilson & Hurd & state what he's to do -

Moore, Daily schedule 225 - dist. for make it what was reason & if OK (you know) do it again tomorrow on new 6 boilers & pump unit

Hayes Read Sum & pick all times we haven't got a cert necessity -

10 lbs steam

6# heat 7 min plates all down - run up fast as possible to 90 lbs pressure moment gauge shows it let it down - so all fires & steam turned off then Cool -

Get from MC Cheney Cost of adding Nahrwalpulse & Daily steam reports Babcock & Young

Economy man reduction. Cost man make report

Hoffman Make some 1 to 1 with Reg amount of Varnish 6/4 + make blanks present direct without using transfers — Equipment.

The cause of beads on short schedule is veneer not bound all over. Red wooden on cooling bound veneer pulls away from unsecured. Best remedy is proper scraping in Red blank so Veneer secured all over.

On hand

Reg 6 32 —				Baked 160°
"				60 cc
"				200°
"				260°
"				70 cc
"				90 cc
722 -	Reg with 1/4% Zn chl			
678 -	2 Pana	10 Penta.	-	8.4 6/4
737	2 Pana	12 "		5.6/4 - Rem
736	2 "	4		6 6/4 "
735	2 "	4		5.5 6/4 "
734	2 "	4		5 6/4 "

Lesson - Practice of taking from 1 dept to another so end piece takes attitude, other log breaks in a good slice goes to another dept + we have the tracking in at Oregon -

Compressed air chips
Cleaner for Washers
1 for Europe 1 for Mullen
1 Here — Also one Dimmerdin
is washing —

Wilson: Not getting a
General idea to start
A class of goods —
+ Economy system for factory

Schedule Making Blanks
~~Heat~~ Contract 3
4 Contract
Try 1200 pressure
1 to 1 mm on
1 to blanks
Also 3 Contract
500 for 5 mm —

Listen to sensitiveness of smaller
transfers —
Print 10 mm at 600 lbs —
~~Print weak record on 55,~~
see if any heat Demerdde records
new Copying ink [illegible]
see if [illegible] 1915
short stroke [illegible] Blanks to Blanks
Look at Label & Cards Wheel
See if powder fine enough —
Listen to Smaller [illegible]
Print & Copy [illegible] on transfers
Blanks on Double transfers
See if Europe reader more
sensitive than one in Chemistry
note on [illegible] records
Try Dallas flat transfers
on 55 schedule
Try [illegible] schedule 300 lbs
for [illegible] —
Try Double transfer on new
blanks 55 schedule —

Try veneer on 55 with horse up + down to change angle of reproducer lower to use of any dry on Scratch – make platten of Ebonite + that in chuck room –

Dynamite of high density well in new dope make scratch a bearable scratching breaks (Scratch using 8 mm with bearer only want it tend to be very dusty –

Make 6 blanks fill powder theme 180 mesh 55 Sch – of Mouldd – to post test

Try quite powder lesson in [illegible]

Try quite lesson on stropped Veneers on practicing –

Try Double transfer on 55 using a stropped Veneer + [illegible] on transfer plate.

Celluloid outer blank

Try ~~metallic plate~~ + stropped Veneers. ~~Present~~ down stairs on Cracked Minster E

Hoffman ~~make~~ 5 to 1 + 6 to 1, 6/4 ~~[illegible]~~ makes – softer – stress well –

Look at Dynamite Tracked Lounge blank under Microscope

Print stropped Veneers 10 mm at 600, average 6 p in

Try ~~sharp~~ scraper –

Double transfer may be thicker. 1/32 inch + raise angle of reproducers head + stylus scratch –

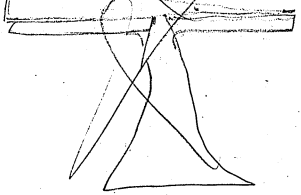
See how flat 55 records are + thickness compared with Reg + if thinner angle Reader change

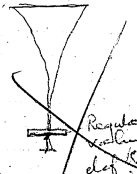
perhaps change of angle of Pepper level to one of four Scarlah trouble if found so-can Hudson new blank -

Dunwiddie Roots - aunt your Revolving tossed on bath

Make Blank up to 2200 -

Wilson - Report of Ro at Shoni that ruled for 3 10 90 -





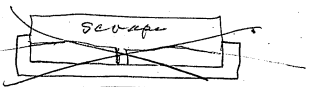
Regulator's measure volume of Scarlah ... Kitchen ... ...

Lahr how is Columbia Y Coming on new model

Hayes get last music sentimental song like Sweetest ... Sacher ... Call me up Dunbar ...

Wheeler Dubrow Neuspa

Sarg formula of Rem + 6/4 5 o/o in powder, perhaps can ...

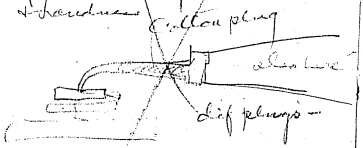


to
Moore start report
on new blank see how
many times it keeps
open —
Lucky turn up a
sample cork
for idley & go to
Newark get price
per 1000 1/16 more
dia to allow for
finish — only
first cork like
sample —

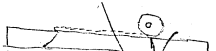
Legil test of Wheel about
Miners Jump —
+ Victor Reader on our
mine

find the formula for
McCandlesser disc
+ samples of can
~~too~~ tell you Chuckling
best to work with —
Start Cylinders
+ Lott making
Cylinder records for
Pierson to test
Leave Lott disassembling
but + separating wrapper
+ distilling off —
Especially McCandlesser

Try exp't with Cotton inside speaker & tail for acoustics & hardness



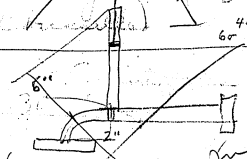
Paint over 719 blank with high viscosity 5% 6/4 varnish & bake dark effect.



White record surface Lay 1/16 inch gray roll roll over wheel Press then Stay off more etc

Hoffman 90% 27 pressure
Transfer 85 27
Present 90 28
Test 88% Seem to ex pressure
Nelson Bolton 2 to 1
3 to 1 Exp

"Nets 10 000 to shipping



Lubr make thes with Piston Disc

Doublon Lay out powder prevent for Hoffman 6" bevel

Pierson Rig up screw on cylinder make 150 threads & use Disc recorder & track deep enough to make a razor edge side walls to test new recording way

Heat record - say tracked blank up to 200 & run reproducer over it see if great pressure of ball dont iron down surface

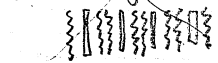
give Lanahan the heavy liquids for mixing Lump — Sodium & Barium

Have you ordered celluloid discs —

to make a better weld think should use 1% Para & a little Penta in blank -

Silver Lake well 15 to 25 ft deep - water -

Smith Take a Bi cell & assemble with twice the amount of Kcs Cts -



Goll - Why not have a speed index like Mellon has on his recorder ~~also not~~

Also How about self winder

Bismuth - possibly Bi
big Cells needs twice as
much Fe because Bi may
not be produced by the larger
Voltage of the small amount of
Fe in big cell but is by the
2 Fe in ~~small Cell~~ cell —
The Bi ~~or other~~ other goes
metallic + makes a net
work conductor - This is
probably true of Cobalt
& 20% Cobalt with plenty
iron ~~with~~ showed the
same thing. it acting as
Conductor till all Bi
is reduced. This is proven
by high results in dipping
Conc Chl Co.
Try ~~A~~ A4 with double
wips or dip tubes in hot
Conc Cobalt Chl & precip
by Rotl & boak out Chl —
Use new tubes never wet
+ soak 24 hours

See how much Cobalt Ox
we have + if mullor get any
want 10 or 15 lbs of it
order it.

Transfer Press	20
2 Contact	
1 Low pressure	24/
5 High pressure	
Cool	132

12 | 100 (833
90
600
6000
7
4200

1350
20
27000

25
3000
5
75000
74000
74
6

11 9.

1350
270
1085
54,00

1080
54
1026
5
5130
1026
54
972

1080
54
4320
5400
583

125
3
3,75

1.4
3
4.2

4 20
3.75
.45

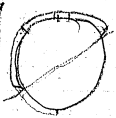
25 | 1320 (5
125
7

970

833
12
166
833
999

78

88
98
85
83
265
6540
09



8 Pressure

4 Steam
8 Cooling
3 minutes [illegible]
15 — 40

110
5000
550 | 1000

550

80
8
64 | 8
12
128
640
768

1800
1080

110
170
170
1700
1100
1870
1870
17

3600
1

110
3600
660000
3700000
3961

4000) 4521 (1.13

4000

521

4000

1210

72

20

144

45

120

60

10 to 16 - 25

60

1500

16000

800

1600

1000

8000

160 - 1350 (8.

1280

8 gms

60 - 1 gm

8) 60

8

483

48

104

635 - 50

21

22

213

22

46

4

46600

58000

60

6250

40

506

85

0

125

5

627

1040.00

2

243

2048

4

5930.1

1245

185

26

430

1510

1170

1717

3

3.21

45

22

72

112

134

150

1650

175

22

6

240

104

75

12

150

9

734

220